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1991 OCT NOV DEC

ENVIROCON, INC.
101 INTERNATIONAL WAY
POST OFFICE BOX 8243
MISSOULA, MONTANA 59807
TELEPHONE: (406) 523-1150
FAX: (406) 523-1182

PLEASE RETURN

February 20, 1992
ENV 140101F02

ENVIROCON, INC.

Solid and Hazardous Waste Bureau
Montana Department of Health and
Environmental Sciences
Cogswell Building
Helena, Montana 59620

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Attention: Mr. John Wadhams

**Subject: October, November, and December 1991 Ground Water Sampling
Results, Livingston Rail Yard**

Dear John:

Envirocon, Inc., representing Burlington Northern Railroad Co., conducted the October 1991 monthly ground water sampling round on October 24, 1991. Six samples were analyzed as part of this event. Five samples were collected at Monitoring Wells 89-2, L-87-2, L-87-7, L-87-8, and LG-10, and one sample was a trip blank. The samples were analyzed by EPA Methods 601 and 418.1 at Energy Laboratories, Inc. (ELI), in Billings Montana. The analytical results and a data validation report for this sampling round are included in Appendix A. Sample results were generally consistent with previous monthly and quarterly results. The only anomaly was from Well L-87-7, where results indicate a 2-chlorotoluene concentration of 1.0 parts per billion (ppb), which is the detection limit. 2-chlorotoluene was not detected when Well L-87-7 was resampled during the November 1991 quarterly sampling round.

Envirocon conducted the November 1991 quarterly ground water sampling round on November 18 through 21, 1991. Thirty-nine samples were analyzed as part of this event: thirty-six samples were collected at monitoring and private wells located within and around the Livingston Rail Yard, and three samples were trip blanks. All samples were analyzed by EPA Methods 524.2 and 418.1 at ELI. Tables 1,2,3,4, and 5 summarize the analytical results for PCE, TCE, cis-1,2-DCE, chlorobenzene, and TPH. Laboratory analytical results and a data validation report for this sampling round are included in Appendix B. As shown on Tables 1 through 4, the November 1991 quarterly ground water sample results are consistent with the three previous quarterly-sampling-round results for these compounds. As shown in the analytical results of Appendix B, chloroform was detected at Monitoring Wells L-87-8 and L-88-13 at concentrations of 1.1 and 3.7 ppb, respectively. This may have

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Mr. John Wadhams
February 20, 1992
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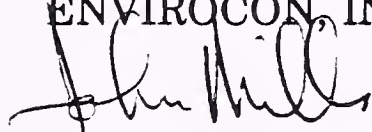
resulted from the chlorine used to redevelop Injection Wells I-1 and I-2 of the pilot scale hydrocarbon recovery system during November. Please note that several of the ground water samples taken during the November 1991 quarterly sampling round were contaminated with methylene chloride at Energy Laboratories. Included in Appendix B is a letter from Energy Laboratories explaining how this happened and which samples were involved.

The December 1991 monthly ground water sampling round was conducted by Envirocon on December 20, 1991. Three samples were analyzed as part of this event. One sample each was collected from Monitor Wells 89-2 and LG-10 and one sample was a trip blank. All samples were analyzed by EPA Method 601 at ELI. Laboratory analytical results and a data validation report for this sampling round are included in Appendix C. No analytes were detected in any of the samples.

All sampling and analytical procedures were conducted in compliance with Amendment 5-2 of the Interim Remedial Measures Work Plan.

Sincerely,

ENVIROCON, INC.



John Mills
Hydrogeologist



Kris Kok
Project Manager

JPM/pm

Attachments

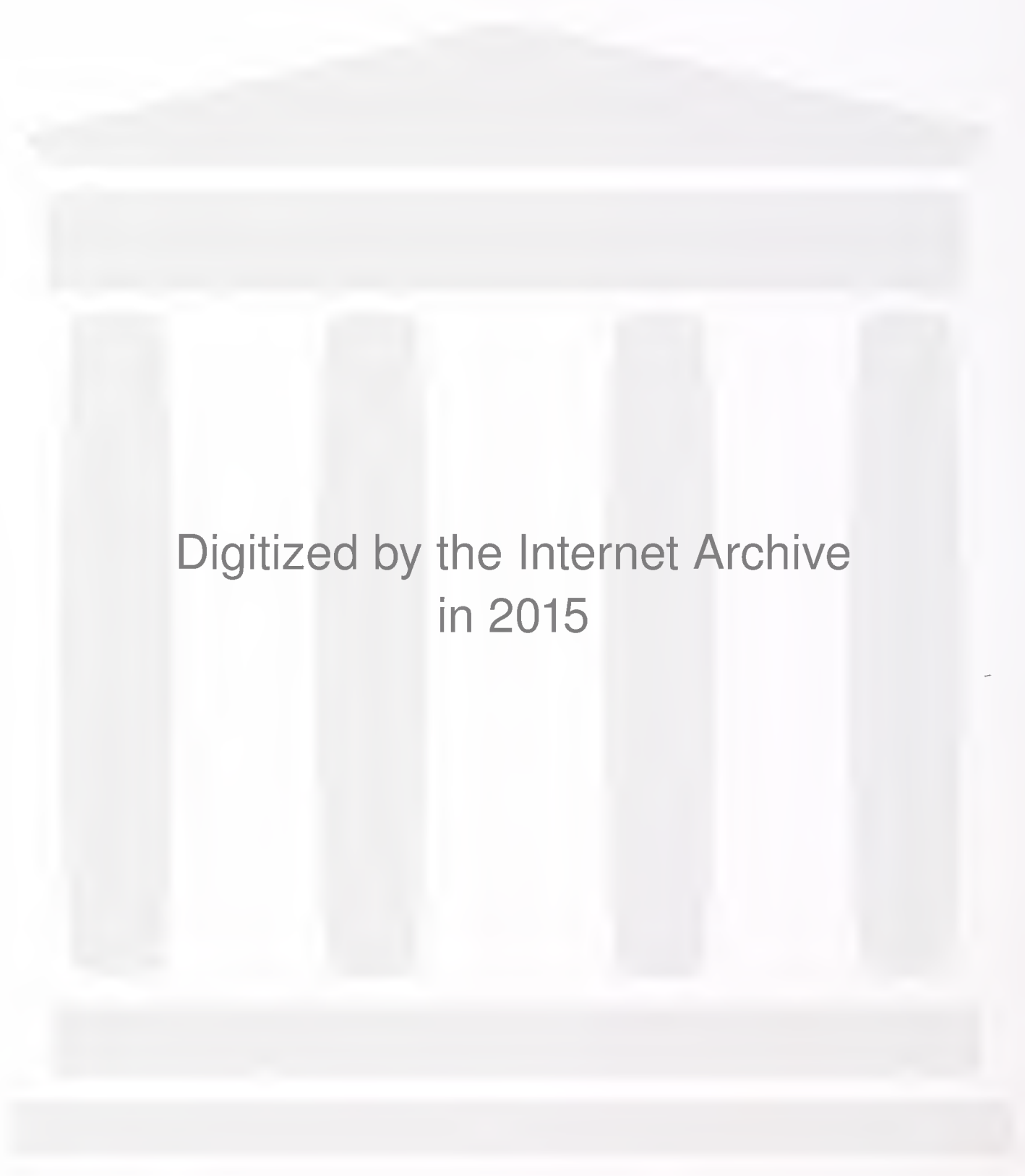
cc: Mel Burda
Dennis Iverson
Steve Pilcher
Joe Michaletz
Envirocon, Missoula

04.let

Table 1: 1991 Tetrachlorethene Analytical Results for Ground Water
Livingston Rail Yard, Livingston, Montana

Chemical Parameter: Tetrachloroethene Units: ug/L

Monitoring Well	1991			
	February Quarterly	May Quarterly	August Quarterly	November Quarterly
1	< 0.5 B	< 0.5 B	< 0.5 B	1.4 B
11	-	< 0.5 B	< 0.5 B	< 0.5 B
2	0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
3	-	-	< 0.5 B	< 0.5 B
4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
5	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
6	1.3 B	4.0 A	4.2 B	3.2 B
7	6.3 B	29.0 B	< 0.5 B	< 0.5 B
8	130.0 B	110.0 B	64.0 B	46.0 B
89-1	7.3 B	17.0 B	2.2 B	1.8 B
89-11	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-3	240.0 B	310.0 B	410.0 B	280.0 B
89-4	340.0 B	330.0 B	180.0 B	210.0 B
89-6	33.0 B	38.0 B	29.0 B	18.0 B
89-7	17.0 B	18.0 B	25.0 B	18.0 B
89-9	230.0 B	250.0 B	220.0 B	190.0 B
90-3	22.0 B	60.0 B	14.0 B	11.0 B
L-87-1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-2	1.9 B	< 0.5 B	< 0.5 B	0.83 B
L-87-3	180.0 B	170.0 B	94.0 B	130.0 B
L-87-4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-5	190.0 B	-	260.0 B	160.0 B
L-87-7	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-8	45.0 B	12.0 B	41.0 B	< 0.5 B
L-88-10	170.0 B	86.0 B	89.0 B	65.0 B
L-88-12	160.0 B	140.0 B	290.0 B	130.0 B
L-88-13	66.0 B	41.0 B	64.0 A	22.0 B
LG-10	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-11	61.0 B	64.0 B	45.0 B	8.0 B
LS-6	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-8	120.0 B	110.0 B	59.0 A	40.0 B
POTW	66.0 B	77.0 B	38.0 B	21.0 B



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Table 2: 1991 Trichloroethene Analytical Results for Ground Water
Livingston Rail Yard, Livingston, Montana

Chemical Parameter: Trichloroethene Units: ug/L

Monitoring Well	1991			
	February Quarterly	May Quarterly	August Quarterly	November Quarterly
1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
11	-	< 0.5 B	< 0.5 B	< 0.5 B
2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
3	-	-	< 0.5 B	< 0.5 B
4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
5	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
6	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
7	< 0.5 B	1.5 B	< 0.5 B	< 0.5 B
8	6.0 B	8.1 B	4.5 B	1.5 B
89-1	< 0.5 B	0.6 B	< 0.5 B	< 0.5 B
89-11	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-3	0.91 B	0.53 B	1.6 B	< 0.5 B
89-4	3.5 B	3.2 B	4.3 B	6.0 B
89-6	0.87 B	0.8 B	1.0 B	0.8 B
89-7	2.3 B	2.6 B	1.4 B	1.8 B
89-9	6.5 B	8.2 B	13.0 B	6.9 B
90-3	4.5 B	7.3 B	9.6 B	4.1 B
L-87-1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-2	7.0 B	20.0 B	7.2 B	17.0 B
L-87-3	18.0 B	13.0 B	11.0 B	10.0 B
L-87-4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-5	6.2 B	-	12.0 B	8.0 B
L-87-7	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-8	35.0 B	4.0 B	12.0 B	5.9 B
L-88-10	21.0 B	19.0 B	21.0 B	18.0 B
L-88-12	1.8 B	4.0 B	2.8 B	5.6 A
L-88-13	12.0 B	6.3 B	14.0 B	7.7 B
LG-10	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-11	12.0 B	12.0 B	17.0 B	9.3 B
LS-6	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-8	18.0 B	14.0 B	7.4 B	3.7 B
POTW	3.5 B	7.6 B	2.2 B	< 0.5 B

Table 3: 1991 cis-1,2-Dichloroethene Analytical Results for Ground Water
Livingston Rail Yard, Livingston, Montana

Chemical Parameter: cis-1,2-Dichloroethene Units: ug/L

Monitoring Well	1991			
	February Quarterly	May Quarterly	August Quarterly	November Quarterly
1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
11	-	< 1.0 B	< 1.0 B	< 1.0 B
2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
3	-	-	< 1.0 B	< 1.0 B
4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
5	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
7	< 1.0 B	3.8 B	< 1.0 B	< 1.0 B
8	7.6 B	13.0 B	7.6 B	1.2 B
89-1	< 1.0 B	1.1 B	< 1.0 B	< 1.0 B
89-11	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-4	3.6 B	3.3 B	1.8 B	16.0 B
89-6	< 1.0 B	< 1.0 B	3.1 B	< 1.0 B
89-7	< 1.0 B	< 1.0 B	< 1.0 B	1.8 B
89-9	< 1.0 B	1.6 B	1.6 B	1.3 B
90-3	3.9 B	35.0 B	33.0 B	7.7 B
L-87-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-2	220.0 B	320.0 B	770.0 B	440.0 B
L-87-3	52.0 B	50.0 B	25.0 B	16.0 B
L-87-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-5	2.7 B	-	4.4 B	3.0 B
L-87-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-8	18.0 B	1.5 B	4.8 B	16.0 B
L-88-10	220.0 B	180.0 B	230.0 B	200.0 B
L-88-12	1.1 B	1.7 B	1.2 B	2.6 A
L-88-13	8.8 B	5.0 B	39.0 A	38.0 B
LG-10	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-11	90.0 B	57.0 B	93.0 B	54.0 B
LS-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-8	110.0 B	110.0 B	20.0 B	6.7 B
POTW	8.0 B	38.0 B	5.0 B	< 1.0 B

Table 4: 1991 Chlorobenzene Analytical Results for Ground Water
Livingston Rail Yard, Livingston, Montana

Chemical Parameter: Chlorobenzene Units: ug/L

Monitoring Well	1991			
	February Quarterly	May Quarterly	August Quarterly	November Quarterly
1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
11	-	< 1.0 B	< 1.0 B	< 1.0 B
2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
3	-	-	< 1.0 B	< 1.0 B
4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
5	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
8	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-11	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-9	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
90-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-2	66.0 B	53.0 B	65.0 B	70.0 B
L-87-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-5	< 1.0 B	-	< 1.0 B	< 1.0 B
L-87-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-8	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-88-10	6.6 B	3.4 B	17.0 B	5.2 B
L-88-12	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-88-13	< 1.0 B	< 1.0 B	4.0 B	1.2 B
LG-10	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-11	120.0 B	< 1.0 B	130.0 B	250.0 B
LS-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-8	38.0 B	23.0 B	< 1.0 B	2.6 B
POTW	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B

Table 5: November 1991 Total Petroleum Hydrocarbons Analytical Results for Ground Water
Livingston Rail Yard, Livingston, Montana

Chemical Parameter: Total petroleum hydrocarbons Units: mg/L

Monitoring Well	1991 November Quarterly
1	< 0.1 B
11	< 0.1 B
2	< 0.1 B
3	0.6 B
4	< 0.1 B
5	< 0.1 B
6	< 0.1 B
7	< 0.1 B
8	< 0.1 B
89-1	< 0.1 B
89-11	< 0.1 B
89-2	< 0.1 B
89-3	< 0.1 B
89-4	< 0.1 B
89-6	< 0.1 B
89-7	< 0.1 B
89-9	< 0.1 B
90-3	< 0.1 B
L-87-1	< 0.1 B
L-87-2	0.7 B
L-87-3	< 0.1 B
L-87-4	0.6 B
L-87-7	1.2 B
L-87-8	8.9 B
L-88-10	< 0.1 B
L-88-12	< 0.1 B
L-88-13	< 0.1 B
LG-10	< 0.1 B
LS-11	0.6 B
LS-6	1.1 B
LS-8	< 0.1 B
POTW	0.3 B



APPENDIX A

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES
LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA
OCTOBER 1991 MONTHLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the October 1991 monthly sampling round.

Table 1: Groundwater medium analytical suites for samples collected on 10/24/91

Sample Station		Date	Envirocon ID#	Lab ID #	<u>EPA Methods</u>	
					418.1	601
89-2	(PS)	10/24/91	140101-886	91-43267	0	31
L-87-2	(PS)	10/24/91	140101-887	91-43268	1	31
L-87-7	(PS)	10/24/91	140101-888	91-43269	1	31
L-87-8	(PS)	10/24/91	140101-890	91-43271	1	31
LG-10	(PS)	10/24/91	140101-889	91-43270	0	31
LG-10	(LD)	10/24/91	140101-889	91-43270	0	31

Explanation

(PS) - Primary Sample
(FD) - Field Duplicate
(LD) - Laboratory Duplicate
(FS) - Field Split to a Second Laboratory

2.0 EVALUATION OF BLANK ANALYSES

One trip blank was analyzed for this sampling round and no contaminants were found. One laboratory blank was analyzed for this sampling round and no contaminants were found. All the blank results are located at the end of this report.

3.0 EVALUATION OF DUPLICATE ANALYSES

No field duplicates were collected for this sample round. One laboratory duplicate was analyzed for this sampling round. A laboratory duplicate was analyzed for the primary sample of well LG-10. No second laboratory splits were collected for this sample round. No relative percent difference calculations were greater than 30% for this sampling round.

4.0 EVALUATION OF HOLDING TIMES

No holding times were exceeded for this sample round.

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

Matrix spike recoveries were all within recovery limits. Surrogate spike recoveries were within recovery limits. The matrix spike and surrogate spike recovery results are included at the end of this report.

6.0 Validation Level Assignments

All analytical results are acceptable for quantitative data analysis for this sampling round.

Laboratory and Trip Blank Analytical Results

		140101-885
	LAB BLANK	TRIP BLANK
Chemical Parameter	10/24/91	10/24/91

Chemical Compound Class: Volatile Organic Compounds

Bromodichloromethane, ug/L	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0
2-Chloroethyl vinyl ether, ug/L	< 1.0	< 1.0
Chloroform, ug/L	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5

Chemical Compound Class: Miscellaneous Chemicals

Total petroleum hydrocarbons, mg/L	< 0.1	-
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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43267 spi
DATE: 11/13/91 da

QUALITY ASSURANCE-SPIKED ANALYSIS

Lab No. 91-43267 was spiked and analyzed on 11/11/91
with the following constituents with these results for Envirocon samples.

<u>Constituent</u>	<u>Spike Amount,</u> <u>µg/l</u>	<u>P (%)</u>	<u>Range for</u> <u>P (%)</u>
Chlorobenzene	5.0	92	60-140
1,2-Dichlorobenzene	5.0	110	60-140
cis-1,2-Dichloroethylene	5.0	93	60-140
trans-1,2-Dichloroethylene	5.0	105	60-140
1,2-Dichloropropane	5.0	71	60-140
Ethylbenzene	5.0	117	60-140
Styrene	5.0	116	60-140
Tetrachloroethylene	5.0	105	60-140
Toluene	5.0	96	60-140
o-Xylene	5.0	130	60-140
p-Xylene	5.0	138	60-140

P = Percent recovery measured.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325

FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43266 -71

DATE: 11/13/91 da

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
91-43266	107	91	117
91-43267	109	93	117
91-43268	107	81	120
91-43269	108	95	105
91-43270	112	103	110
91-43270 dup	107	97	102
91-43271	104	97	112
Blank	99	100	95

S1 (TOL) = Toluene-d8

S2 (BFB) = Bromofluorobenzene

S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery

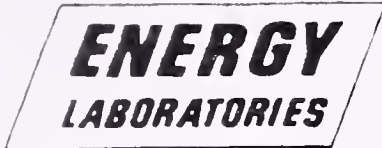
80-120

80-120

80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

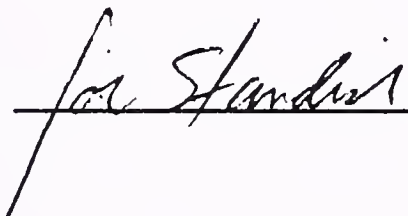
November 13, 1991

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On October 28, 1991, these samples, represented by our laboratory numbers 91-43266 to 91-43271, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:

A handwritten signature in cursive script, appearing to read "Joe Standish", written over a horizontal line.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43266
DATE: 11/13/91 da

WATER ANALYSIS

Livingston/BN
140101-885
Sampled 10/24/91 @ 1100
Analyzed 11/05/91
Submitted 10/28/91

Blank

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43267
DATE: 11/13/91 da

WATER ANALYSIS

Livingston/BN
140101-886 89-2
Sampled 10/24/91 @ 1410
Analyzed 11/05/91
Submitted 10/28/91

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43268
DATE: 11/13/91 da

WATER ANALYSIS

Livingston/BN
140101-887
Sampled 10/24/91 @ 1445
Analyzed 11/05/91
Submitted 10/28/91

L-87-2

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	74 *
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	120 *
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	4.5
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	3.6
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	670 *
trans-1,2-Dichloroethene	9.9
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	0.53
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	13
Trichlorofluoromethane	<1.0
Vinyl chloride	1.7
Dichlorodifluoromethane	<1.0

*Value derived from a 50X dilution of the sample.

NOTE: This analysis is equivalent to EPA Methods 601/8010.

817.3

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43269
DATE: 11/13/91 da

WATER ANALYSIS

Livingston/BN
140101-888
Sampled 10/24/91 @ 1578
Analyzed 11/05/91
Submitted 10/28/91

L-87-7

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43270
DATE: 11/13/91 da

WATER ANALYSIS

Livingston/BN
140101-889
Sampled 10/24/91 @ 1555
Analyzed 11/05/91
Submitted 10/28/91

L6-10

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43270 dup
DATE: 11/13/91 da

QUALITY ASSURANCE ~~DUPLICATE~~ ANALYSIS

Livingston/BN

140101-889

L6-10

Sampled 10/24/91 @ 1555

Analyzed 11/06/91

Submitted 10/28/91

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43271
DATE: 11/13/91 da

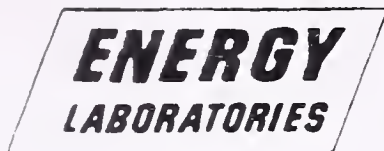
WATER ANALYSIS

Livingston/BN
140101-890
Sampled 10/24/91 @ 1635
Analyzed 11/05/91
Submitted 10/28/91

L-87-8

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	13
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	4.4
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	7.2
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.



ENERGY LABORATORIES, INC.

P O BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS MT 59107-0916 • PHONE (406)252-6325

FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 11/13/91 da

WATER ANALYSIS

Analyzed 11/05/91

<u>Constituent</u>	<u>µg/l</u>
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-43268, 69, 71
DATE: 11/07/91 crp

RECEIVED
NOV 08 1991
ENVIROCON, Inc.
Livingston, MT

WATER ANALYSIS

Livingston/BN
Sampled 10/24/91
Analyzed 10/28/91
Submitted 10/28/91

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l(ppm)</u>
91-43268	140101-887, Sampled @ 1445 L-87-2	<0.1
91-43269	140101-888, Sampled @ 1578 L-87-7	0.7
91-43271	140101-890, Sampled @ 1635 L-87-8	12.9
Blank	Method Blank	<0.1

NOTE: Analysis done by EPA method 418.1



APPENDIX B

JAN 23 1992

ENVIROCON, INC.
WINSTON, ME

RECEIVED DEC 19 1991

December 18, 1991

Mr. Dan McCaffery
Envirocon, Inc.
P.O. Box 8243
Missoula, MT 59807

Dear Dan:

As we discussed over the telephone, several of your sample results submitted for VOC analysis may have been contaminated with methylene chloride at the laboratory.

Your samples were stored in VOA vials in a cold storage area. One of our staff also placed an open container of methylene chloride in the same cooler. It is very likely that this caused sample contamination.

The affected samples are:

<u>Identification</u>	<u>Lab Number</u>
140101-921	91-45541
140101-920	91-45542
140101-919	91-45543
140101-918	91-45544
140101-917	91-45545
140101-916	91-45546
140101-915	91-45547
140101-914	91-45548
140101-913	91-45549
140101-922	91-45832
140101-923	91-45833
140101-924	91-45834
140101-925	91-45835
140101-926	91-45836
140101-927	91-45837
140101-928	91-45838
140101-929	91-45839
140101-930	91-45840
140101-931	91-45841
140101-943	91-45842
140101-944	91-45843
140101-945	91-45844
140101-932	91-45848
140101-933	91-45849
140101-934	91-45850

Mr. Dan McCaffery
December 18, 1991
Page Two

RECEIVED
JAN 23 1992
ENVIROCON, Inc.
Livingston, ME

<u>Identification</u>	<u>Lab Number</u>
140101-935	91-45851
140101-936(937)	91-45852
140101-938	91-45853
140101-939	91-45854
140101-940	91-45855
140101-941	91-45856
140101-942	91-45857
140101-935	91-45858

We apologize for this error and the problems it may cause you. We have taken steps to prevent this from happening again.

Very truly yours,

ENERGY LABORATORIES, INC.



John Standish
Chief Chemist

JS/crp

cc: John Mills, Envirocon, Livingston MT

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES

LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA

NOVEMBER 1991 QUARTERLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the November 1991 quarterly sampling round.

Table 1: Groundwater medium analytical suites for samples collected from 11/18/91 to 11/21/91

Sample Station		Date	Envirocon ID#	Lab ID #	EPA Analytical Methods		
					418.1	524.2	601
1	(PS)	11/18/91	140101-909	91-45534	1	58	0
11	(PS)	11/19/91	140101-914	91-45548	1	58	0
2	(PS)	11/18/91	140101-906	91-45537	1	58	0
3	(PS)	11/20/91	140101-926	91-45836	1	58	0
4	(PS)	11/18/91	140101-910	91-45533	1	58	0
5	(PS)	11/20/91	140101-922	91-45832	1	58	0
6	(PS)	11/20/91	140101-923	91-45833	1	58	0
7	(PS)	11/18/91	140101-907	91-45536	1	58	0
8	(PS)	11/21/91	140101-941	91-45856	1	58	0
89-1	(PS)	11/20/91	140101-929	91-45839	1	58	0
89-11	(PS)	11/21/91	140101-938	91-45853	1	58	0
89-2	(PS)	11/19/91	140101-915	91-45547	1	58	0
89-2	(FD)	11/19/91	140101-916	91-45546	1	58	0
89-3	(PS)	11/21/91	140101-939	91-45854	1	58	0
89-3	(FD)	11/21/91	140101-940	91-45855	1	58	0
89-4	(PS)	11/20/91	140101-931	91-45841	1	58	0
89-6	(PS)	11/19/91	140101-921	91-45541	1	58	0

Explanation

- (PS) - Primary Sample
- (FD) - Field Duplicate
- (LD) - Laboratory Duplicate
- (FS) - Field Split to a Second Laboratory

Table 1 (cont.): Groundwater medium analytical suites for samples collected from 11/18/91 to 11/21/91

Sample Station		Date	Envirocon ID#	Lab ID #	EPA Analytical Methods		
					418.1	524.2	601
89-7	(PS)	11/21/91	140101-937	91-45852	1	58	0
89-9	(PS)	11/21/91	140101-936	91-45851	1	58	0
90-3	(PS)	11/19/91	140101-918	91-45544	1	58	0
L-87-1	(PS)	11/18/91	140101-904	91-45539	1	58	0
L-87-2	(PS)	11/21/91	140101-932	91-45848	1	58	0
L-87-3	(PS)	11/20/91	140101-930	91-45840	1	58	0
L-87-3	(LD)	11/20/91	140101-930	91-45840	0	58	0
L-87-4	(PS)	11/20/91	140101-928	91-45838	1	58	0
L-87-5	(PS)	11/21/91	140101-935	91-45858	0	0	31
L-87-7	(PS)	11/20/91	140101-927	91-45837	1	58	0
L-87-8	(PS)	11/18/91	140101-908	91-45535	1	58	0
L-88-10	(PS)	11/20/91	140101-924	91-45834	1	58	0
L-88-12	(PS)	11/21/91	140101-933	91-45849	1	58	0
L-88-12	(FD)	11/21/91	140101-934	91-45850	1	58	0
L-88-12	(LD)	11/21/91	140101-934	91-45850	0	58	0
L-88-13	(PS)	11/20/91	140101-925	91-45835	1	58	0
LG-10	(PS)	11/18/91	140101-905	91-45538	1	58	0
LS-11	(PS)	11/19/91	140101-919	91-45543	1	58	0
LS-6	(PS)	11/19/91	140101-913	91-45549	1	58	0
LS-8	(PS)	11/19/91	140101-920	91-45542	1	58	0
POTW	(PS)	11/19/91	140101-917	91-45545	1	58	0

Explanation

- (PS) - Primary Sample
(FD) - Field Duplicate
(LD) - Laboratory Duplicate
(FS) - Field Split to a Second Laboratory

2.0 EVALUATION OF BLANK ANALYSES

Three trip blanks were analyzed for this sampling round. Methylene chloride was found in three trip blanks with a concentration range of 1.0 to 1.2 ug/L. One equipment blank was analyzed for this sampling round and no contaminants were found. Four laboratory blanks were analyzed for this sampling round and no contaminants were found. The external contamination was caused by an Energy Laboratories, Inc. employee. They placed an open methylene chloride container in the same cooler that contained the November quarterly sampling round samples. The letter from Energy Laboratories, describing the problem is located at the end of this report. Table 2 lists the sample results for the November, 1991 quarterly sampling round which were affected by the laboratory contamination. All detected methylene chloride values are validated as unusable. All the blank results are located at the end of this report.

Table 2: List of sample results which are affected by laboratory contamination.

Sample Station	Chemical Name	Value	Units
1	(PS) Methylene chloride	1.0	ug/L
8	(PS) Methylene chloride	1.1	ug/L
11	(PS) Methylene chloride	1.7	ug/L
89-1	(PS) Methylene chloride	1.3	ug/L
89-2	(PS) Methylene chloride	1.3	ug/L
89-2	(LD) Methylene chloride	1.1	ug/L
89-4	(PS) Methylene chloride	1.0	ug/L
90-3	(PS) Methylene chloride	1.0	ug/L
L-87-3	(PS) Methylene chloride	1.2	ug/L
L-87-3	(LD) Methylene chloride	1.0	ug/L
L-87-4	(PS) Methylene chloride	1.1	ug/L
L-87-7	(PS) Methylene chloride	1.1	ug/L
L-87-8	(PS) Methylene chloride	1.0	ug/L
LS-11	(PS) Methylene chloride	17.0	ug/L
POTW	(PS) Methylene chloride	1.5	ug/L

Explanation

(PS) - Primary Sample

(LD) - Laboratory Duplicate

3.0 EVALUATION OF DUPLICATE ANALYSES

Three field duplicates were collected during this sampling round. Field duplicates were collected at wells 89-2, 89-3 and L-88-12. Two laboratory duplicates were analyzed for this sampling round. Laboratory duplicates were analyzed for the primary sample of well L-87-3 and the field duplicate of well L-88-12. No second laboratory splits were collected for this sample round. Table 3 lists the sample results for the November, 1991 quarterly sampling round which failed the duplicate comparison criteria.

Table 3: List of sample results which exceeded the relative percent difference value of 30%.

Sample Station	Chemical Name	Value	Dupl. Value	RPD %	Dupl. Type
L-88-12	cis-1,2-Dichloroethene	2.6	1.5	53.7	Field
L-88-12	Trichloroethene	5.6	3.7	40.9	Field
L-88-12	Trichloroethene	3.7	5.1	31.8	Laboratory

4.0 EVALUATION OF HOLDING TIMES

Table 4 lists the sample stations and analytical methods for the November 1991 quarterly sampling round which exceeded the laboratory holding time criteria.

Table 4: List of sample stations and analytical methods which exceeded laboratory holding times.

Sample Station	Sample Type	Analytical Method	Holding Time	Reason
L-88-12	Laboratory Duplicate	EPA 524.2	19	Analysis Date

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

Matrix spike recoveries were all within recovery limits. Surrogate spike recoveries were within recovery limits. U.S. Environmental Protection Agency quality control samples were all within the control limits. Matrix spike, surrogate spike and U.S. EPA quality control sample results are located at the end of this report.

6.0 Validation Level Assignments

Analytical results are acceptable for quantitative data analysis for this sampling round with the exception of the sample results listed in Table 5A (qualitative results) and Table 5B (unusable results).

Table 5A: List of sample results which have been validated as qualitative.

Sample Station	Sample Type	Parameter	Reason
L-88-12	Primary Sample	Trichloroethene	Duplicate Comparison
L-88-12	Field Duplicate	Trichloroethene	Duplicate Comparison
L-88-12	Primary Sample	cis-1,2-Dichloroethene	Duplicate Comparison
L-88-12	Field Duplicate	cis-1,2-Dichloroethene	Duplicate Comparison
L-88-12	Laboratory Duplicate	EPA 524.2	Holding Time

Table 5B: List of sample results which have been validated as unusable.

Sample Station	Sample Type	Parameter	Reason
L-88-12	Laboratory Duplicate	Trichloroethene	Holding Time & Dup. Comparison
L-88-12	Laboratory Duplicate	cis-1,2-Dichloroethene	Holding Time & Dup. Comparison
1	Primary Sample	Methylene chloride	Laboratory Contamination
8	Primary Sample	Methylene chloride	Laboratory Contamination
11	Primary Sample	Methylene chloride	Laboratory Contamination
89-1	Primary Sample	Methylene chloride	Laboratory Contamination
89-2	Primary Sample	Methylene chloride	Laboratory Contamination
89-2	Laboratory Duplicat	Methylene chloride	Laboratory Contamination
89-4	Primary Sample	Methylene chloride	Laboratory Contamination
90-3	Primary Sample	Methylene chloride	Laboratory Contamination

Table 5B (cont.): List of sample results which have been validated as unusable.

Sample Station	Sample Type	Parameter	Reason
L-87-3	Primary Sample	Methylene chloride	Laboratory Contamination
L-87-3	Laboratory Duplicate	Methylene chloride	Laboratory Contamination
L-87-4	Primary Sample	Methylene chloride	Laboratory Contamination
L-87-7	Primary Sample	Methylene chloride	Laboratory Contamination
L-87-8	Primary Sample	Methylene chloride	Laboratory Contamination
LS-11	Primary Sample	Methylene chloride	Laboratory Contamination
POTW	Primary Sample	Methylene chloride	Laboratory Contamination

RECEIVED DEC 19 1991 *DM*

December 18, 1991

Mr. Dan McCaffery
Envirocon, Inc.
P.O. Box 8243
Missoula, MT 59807

Dear Dan:

As we discussed over the telephone, several of your sample results submitted for VOC analysis may have been contaminated with methylene chloride at the laboratory.

Your samples were stored in VOA vials in a cold storage area. One of our staff also placed an open container of methylene chloride in the same cooler. It is very likely that this caused sample contamination.

The affected samples are:

<u>Identification</u>	<u>Lab Number</u>
140101-921	91-45541
140101-920	91-45542
140101-919	91-45543
140101-918	91-45544
140101-917	91-45545
140101-916	91-45546
140101-915	91-45547
140101-914	91-45548
140101-913	91-45549
140101-922	91-45832
140101-923	91-45833
140101-924	91-45834
140101-925	91-45835
140101-926	91-45836
140101-927	91-45837
140101-928	91-45838
140101-929	91-45839
140101-930	91-45840
140101-931	91-45841
140101-943	91-45842
140101-944	91-45843
140101-945	91-45844
140101-932	91-45848
140101-933	91-45849
140101-934	91-45850

Mr. Dan McCaffery
December 18, 1991
Page Two

<u>Identification</u>	<u>Lab Number</u>
140101-935	91-45851
140101-936(937)	91-45852
140101-938	91-45853
140101-939	91-45854
140101-940	91-45855
140101-941	91-45856
140101-942	91-45857
140101-935	91-45858

We apologize for this error and the problems it may cause you. We have taken steps to prevent this from happening again.

Very truly yours,

ENERGY LABORATORIES, INC.



John Standish
Chief Chemist

JS/crp

cc: John Mills, Envirocon, Livingston MT

Equipment, Laboratory and Trip Blank Analytical Results

Chemical Parameter	140101-942			
	EQUIP BLNK	LAB BLANK 1	LAB BLANK 2	LAB BLANK 3
	11/21/91	11/18/91	11/19/91	11/20/91
Chemical Compound Class: Volatile Organic Compounds				
Benzene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether, ug/L	-	-	-	-
Chloroform, ug/L	8.5	< 1.0	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Styrene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0

Equipment, Laboratory and Trip Blank Analytical Results

Chemical Parameter	140101-942			
	EQUIP BLANK	LAB BLANK 1	LAB BLANK 2	LAB BLANK 3
	11/21/91	11/18/91	11/19/91	11/20/91
Chemical Compound Class: Volatile Organic Compounds				
1,2,4-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes, total, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chemical Compound Class: Miscellaneous Chemicals				
Total petroleum hydrocarbons, mg/L	-	< 0.1	< 0.1	< 0.1

Laboratory and Trip Blank Analytical Results

Chemical Parameter	LAB BLANK 4	LAB BLANK 5	140101-903	140101-903
	11/21/91	11/21/91	TRIP BLANK 11/18/91 Primary	TRIP BLANK 11/18/91 Lab Dup.
Chemical Compound Class: Volatile Organic Compounds				
Benzene, ug/L	< 0.5	-	< 0.5	< 0.5
Bromobenzene, ug/L	< 1.0	-	< 1.0	< 1.0
Bromochloromethane, ug/L	< 1.0	-	< 1.0	< 1.0
Bromodichloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
sec-Butylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
tert-Butylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether, ug/L	-	< 1.0	-	-
Chloroform, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene, ug/L	< 1.0	-	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane, ug/L	< 1.0	-	< 1.0	< 1.0
1,2-Dibromoethane, ug/L	< 1.0	-	< 1.0	< 1.0
Dibromomethane, ug/L	< 1.0	-	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane, ug/L	< 1.0	-	< 1.0	< 1.0
2,2-Dichloropropane, ug/L	< 1.0	-	< 1.0	< 1.0
1,1-Dichloropropene, ug/L	< 1.0	-	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
Hexachlorobutadiene, ug/L	< 1.0	-	< 1.0	< 1.0
Isopropylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
p-Isopropyltoluene, ug/L	< 1.0	-	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0	1.1	1.0
Naphthalene, ug/L	< 1.0	-	< 1.0	< 1.0
n-Propylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
Styrene, ug/L	< 1.0	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane, ug/L	< 1.0	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene, ug/L	< 1.0	-	< 1.0	< 1.0
1,2,3-Trichlorobenzene, ug/L	< 1.0	-	< 1.0	< 1.0

Laboratory and Trip Blank Analytical Results

Chemical Parameter	LAB BLANK 4	LAB BLANK 5	140101-903	140101-903
	11/21/91	11/21/91	TRIP BLANK 11/18/91 Primary	TRIP BLANK 11/18/91 Lab Dup.
Chemical Compound Class: Volatile Organic Compounds				
1,2,4-Trichlorobenzene, ug/L	< 1.0	-	< 1.0	< 1.0
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane, ug/L	< 1.0	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene, ug/L	< 1.0	-	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes, total, ug/L	< 1.0	-	< 1.0	< 1.0
Chemical Compound Class: Miscellaneous Chemicals				
Total petroleum hydrocarbons, mg/L	< 0.1	-	-	-

Trip Blank Analytical Results

140101-943

TRIP BLANK 2

Chemical Parameter

11/20/91

Chemical Compound Class: Volatile Organic Compounds

Benzene, ug/L	< 0.5
Bromobenzene, ug/L	< 1.0
Bromochloromethane, ug/L	< 1.0
Bromodichloromethane, ug/L	< 1.0
Bromoform, ug/L	< 1.0
Bromomethane, ug/L	< 1.0
n-Butylbenzene, ug/L	< 1.0
sec-Butylbenzene, ug/L	< 1.0
tert-Butylbenzene, ug/L	< 1.0
Carbon tetrachloride, ug/L	< 0.5
Chlorobenzene, ug/L	< 1.0
Chloroethane, ug/L	< 1.0
2-Chloroethyl vinyl ether, ug/L	-
Chloroform, ug/L	< 1.0
Chloromethane, ug/L	< 1.0
2-Chlorotoluene, ug/L	< 1.0
4-Chlorotoluene, ug/L	< 1.0
Dibromochloromethane, ug/L	< 1.0
1,2-Dibromo-3-chloropropane, ug/L	< 1.0
1,2-Dibromoethane, ug/L	< 1.0
Dibromomethane, ug/L	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0
1,1-Dichloroethane, ug/L	< 1.0
1,2-Dichloroethane, ug/L	< 0.5
1,1-Dichloroethene, ug/L	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0
1,2-Dichloropropane, ug/L	< 1.0
1,3-Dichloropropane, ug/L	< 1.0
2,2-Dichloropropane, ug/L	< 1.0
1,1-Dichloropropene, ug/L	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0
Ethylbenzene, ug/L	< 1.0
Hexachlorobutadiene, ug/L	< 1.0
Isopropylbenzene, ug/L	< 1.0
p-Isopropyltoluene, ug/L	< 1.0
Methylene chloride, ug/L	1.2
Naphthalene, ug/L	< 1.0
n-Propylbenzene, ug/L	< 1.0
Styrene, ug/L	< 1.0
1,1,1,2-Tetrachloroethane, ug/L	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0
Tetrachloroethene, ug/L	< 0.5
Toluene, ug/L	< 1.0
1,2,3-Trichlorobenzene, ug/L	< 1.0

Trip Blank Analytical Results

140101-943

TRIP BLANK 2

Chemical Parameter

11/20/91

Chemical Compound Class: Volatile Organic Compounds

1,2,4-Trichlorobenzene, ug/L	< 1.0
1,1,1-Trichloroethane, ug/L	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0
Trichloroethene, ug/L	< 0.5
Trichlorofluoromethane, ug/L	< 1.0
1,2,3-Trichloropropane, ug/L	< 1.0
1,2,4-Trimethylbenzene, ug/L	< 1.0
1,3,5-Trimethylbenzene, ug/L	< 1.0
Vinyl chloride, ug/L	< 0.5
Xylenes, total, ug/L	< 1.0

Chemical Compound Class: Miscellaneous Chemicals

Total petroleum hydrocarbons, mg/L	-
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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45532 spi
DATE: 12/11/91 crp

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 91-45532 was analyzed 12/05/91 and spiked with
the following constituents with these results:

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
L. Livingston, MT

<u>Constituent</u>	<u>Spike Amount, $\mu\text{g/l}$</u>	<u>P (%)</u>	<u>Range for P (%)</u>
Chlorobenzene	5.0	90	60-140
1,2-Dichlorobenzene	5.0	120	60-140
cis-1,2-Dichloroethylene	5.0	88	60-140
trans-1,2-Dichloroethylene	5.0	90	60-140
1,2-Dichloropropane	5.0	95	60-140
Ethylbenzene	5.0	104	60-140
Styrene	5.0	116	60-140
Tetrachloroethylene	5.0	90	60-140
Toluene	5.0	85	60-140
o-Xylene	5.0	119	60-140
p-Xylene	5.0	110	60-140

P = Percent recovery measured.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325

FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45541 spi
DATE: 12/13/91 rh

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 91-45541 was analyzed on 12/06/91 and spiked with the following constituents with these results for Envirocon samples:

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Constituent</u>	<u>Spike Amount,</u> <u>µg/l</u>	<u>P(%)</u>	<u>Range for</u> <u>P(%)</u>
Chlorobenzene	25	100	60-140
1,2-Dichlorobenzene	25	140	60-140
cis-1,2-Dichloroethylene	25	94	60-140
trans-1,2-Dichloroethylene	25	94	60-140
1,2-Dichloropropane	25	104	60-140
Ethylbenzene	25	107	60-140
Styrene	25	123	60-140
Tetrachloroethylene	25	94	60-140
Toluene	25	96	60-140
o-Xylene	25	124	60-140
p-Xylene	25	120	60-140

P = Percent recovery measured

A 5x dilution of the original sample was spiked for analysis.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45841 spi
DATE: 12/16/91 crp

RECEIVED
DEC 17 1991
ENVIROCON, INC.
LIVINGSTON, MT

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 91-45841 was analyzed 12/06/91 and spiked with
the following constituents with these results:

<u>Constituent</u>	<u>Spike Amount, µg/l</u>	<u>P (%)</u>	<u>Range for P (%)</u>
Chlorobenzene	125	88	60-140
1,2-Dichlorobenzene	125	118	60-140
cis-1,2-Dichloroethylene	125	103	60-140
trans-1,2-Dichloroethylene	125	88	60-140
1,2-Dichloropropane	125	94	60-140
Ethylbenzene	125	99	60-140
Styrene	125	111	60-140
Tetrachloroethylene	125	86	60-140
Toluene	125	87	60-140
o-Xylene	125	111	60-140
p-Xylene	125	109	60-140

NOTE: The sample was diluted 25X before being spiked.

P = Percent recovery measured.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325

FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45851 spi
DATE: 12/16/91 rh

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Livingston, Mt.

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 91-45851 was spiked with the following constituents with these results for Envirocon samples:

<u>Constituent</u>	<u>Spike Amount,</u> <u>µg/l</u>	<u>P(%)</u>	<u>Range for</u> <u>P(%)</u>
Chlorobenzene	50	108	60-140
1,2-Dichlorobenzene	50	125	60-140
cis-1,2-Dichloroethylene	50	116	60-140
trans-1,2-Dichloroethylene	50	120	60-140
1,2-Dichloropropane	50	126	60-140
Ethylbenzene	50	115	60-140
Styrene	50	120	60-140
Tetrachloroethylene	50	102	60-140
Toluene	50	108	60-140
o-Xylene	50	120	60-140
p-Xylene	50	108	60-140

P = Percent recovery measured

A 10x dilution of the original sample was spiked for analysis.

**ENERGY LABORATORIES, INC.**

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45531 -40
DATE: 12/11/91 crp

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
91-45531	120	91	105
91-45532	118	98	107
91-45533	120	94	108
91-45534	101	101	98
91-45535	98	102	96
91-45536	98	102	95
91-45537	99	102	94
91-45538	95	105	88
91-45539	97	106	94
91-45540	99	101	92
91-45540 dup	105	114	87
Method Blank 11/26	90	98	101

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Livingston, MT

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**P O BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489**LABORATORY REPORT**TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807LAB NO.: 91-45541-9
DATE: 12/13/91 rhWATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

RECEIVED
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ENVIROCON, Inc.
Livingston, Mt.

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
Blank	80	97	110
91-45541	99	103	96
91-45542	120	92	117
91-45543	98	89	116
91-45544	119	90	113
91-45545	114	93	118
91-45546	119	92	110
91-45547	118	93	114
91-45548	117	89	109
91-45549	115	87	111

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**

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FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45832 -44
DATE: 12/16/91 crp

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

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ENVIROCON, Inc.
Livingston, Mt.

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
91-45832	99	116	89
91-45833	103	104	107
91-45834	98	91	120
91-45835	94	91	102
91-45836	94	95	105
91-45837	100	94	106
91-45838	97	91	107
91-45839	99	96	110
91-45840	100	94	102
91-45840 dup	103	110	86
91-45841	102	92	100
91-45842	99	94	98
91-45843	97	94	97
91-45844	102	104	115
Method Blank 12/2	101	111	97

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery

80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489**LABORATORY REPORT**TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 91-45848-57
DATE: 12/16/91 rhWATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

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ENVIROCON, Inc.
Livingston, Mt.

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
91-45848	98	88	106
91-45849	99	98	108
91-45850	97	98	110
91-45850 dup	102	103	82
91-45851	101	90	116
91-45852	100	97	109
91-45853	97	93	104
91-45854	103	93	106
91-45855	100	89	116
91-45856	100	93	118
91-45857	104	94	116
Blank	100	100	100

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**

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FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45858
DATE: 12/16/91 rh

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Livingston, MT

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

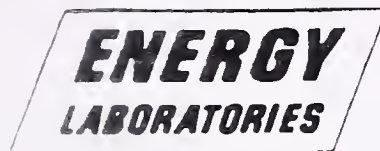
<u>SAMPLE NO.</u>	-----% recovery-----		
	S1 <u>(TOL)#</u>	S2 <u>(BFB)#</u>	S3 <u>(DCE)#</u>
91-45858	101	83	117
Blank	100	100	100

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45531 -40
DATE: 12/11/91 crp

EPA WATER SUPPLY QUALITY CONTROL SAMPLE**Volatile Organic Contaminants**

This EPA Quality Control sample was analyzed with your lab no.s
91-45531 -40 with the following results:

<u>Parameter</u>	<u>True Value, $\mu\text{g/l}$</u>	<u>P (%)</u>	<u>Range for P (%)</u>
Methylene Chloride	9.2	88	60-140
trans-1,2-Dichloroethene	7.4	104	60-140
1,2-Dichloropropane	8.0	94	60-140
Toluene	1.7	80	60-140
1,1,2-Trichloroethane	8.7	90	60-140
1,2-Dibromomethane	6.2	74	60-140
Chlorobenzene	5.2	88	60-140
1,1,1,2-Tetrachloroethane	2.6	123	60-140
Ethylbenzene	14.3	120	80-120
2-Chlorotoluene	8.4	105	60-140
1,2-Dichlorobenzene	4.7	123	60-140

P = Percent recovery measured.



ENERGY LABORATORIES, INC.

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FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45541-9
DATE: 12/13/91 rh

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your Lab
No.s 91-45541-45549 with the following results:

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Livingston, Mt.

<u>Parameter</u>	<u>True Value,</u> <u>µg/l</u>	<u>P(%)</u>	<u>Range</u> <u>for P(%)</u>
Methylene Chloride	9.2	88	60-140
trans-1,2-Dichloroethene	7.4	104	60-140
1,2-Dichloropropane	8.0	94	60-140
Toluene	1.7	80	60-140
1,1,2-Trichloroethane	8.7	90	60-140
1,2-Dibromomethane	6.2	74	60-140
Chlorobenzene	5.2	88	60-140
1,1,1,2-Tetrachloroethane	2.6	123	60-140
Ethylbenzene	14.3	120	60-140
2-Chlorotoluene	8.4	105	60-140
1,2-Dichlorobenzene	4.7	123	60-140

P = Percent recovery measured.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45832 -44
DATE: 12/16/91 crp

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants
Analyzed 12/05/91

This EPA Quality Control sample was analyzed with your lab no.s
91-45832 -44 with the following results:

<u>Parameter</u>	<u>True Value, µg/l</u>	<u>P (%)</u>	<u>Range for P (%)</u>
Methylene chloride	9.2	97	60-140
trans-1,2-Dichloroethene	7.4	100	60-140
1,2-Dichloropropane	8.0	107	60-140
Toluene	1.7	85	60-140
1,1,2-Trichloroethane	8.7	104	60-140
1,2-Dibromomethane	6.2	104	60-140
Chlorobenzene	5.2	102	60-140
1,1,1,2-Tetrachloroethane	2.6	129	60-140
Ethylbenzene	14.3	107	80-120
2-Chlorotoluene	8.4	91	60-140
1,2-Dichlorobenzene	4.7	119	60-140

P = Percent recovery measured.

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Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45848-57
DATE: 12/16/91 rh

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EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your Lab
No.s 91-45848-45857 with the following results:

<u>Parameter</u>	<u>True Value,</u> <u>µg/l</u>	<u>P(%)</u>	<u>Range</u> <u>for P(%)</u>
Methylene Chloride	9.2	97	60-140
trans-1,2-Dichloroethene	7.4	100	60-140
1,2-Dichloropropane	8.0	107	60-140
Toluene	1.7	85	60-140
1,1,2-Trichloroethane	8.7	104	60-140
1,2-Dibromomethane	6.2	104	60-140
Chlorobenzene	5.2	102	60-140
1,1,1,2-Tetrachloroethane	2.6	129	60-140
Ethylbenzene	14.3	107	80-120
2-Chlorotoluene	8.4	91	60-140
1,2-Dichlorobenzene	4.7	119	60-140

P = Percent recovery measured.

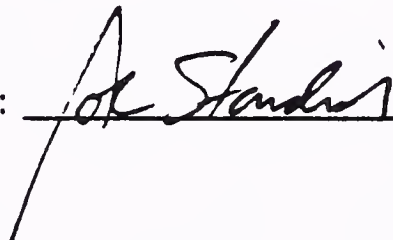
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December 11, 1991

Envirocon, Inc.
P.O. Box 8243
Missoula, MT 59807RECEIVED
DEC 1 6 1991
ENVIROCON, Inc.
Livingston, MT

On November 21, 1991, these samples, represented by our laboratory numbers 91-45531 to 91-45540, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: 



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45533
DATE: 12/11/91 crp

WATER ANALYSIS

Livingston/BN
140101-910
Sampled 11/18/91 @ 1648
Submitted 11/21/91
Analyzed 11/26/91

#4 (DBP)

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Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45534
DATE: 12/11/91 crp

WATER ANALYSIS

Livingston/BN #1 (DEP)
140101-909
Sampled 11/18/91 @ 1620
Submitted 11/21/91
Analyzed 11/26/91

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ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	1.4
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45535
DATE: 12/12/91 crp

WATER ANALYSIS

Livingston/BN
140101-908
Sampled 11/18/91 @ 1515
Submitted 11/21/91
Analyzed 11/26/91

L-87-8 (DBP)

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ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	1.1	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	5.9
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	16	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45536
DATE: 12/11/91 crp

WATER ANALYSIS

Livingston/BN
140101-907
Sampled 11/18/91 @ 1430
Submitted 11/21/91
Analyzed 11/26/91

#7 (DBP)

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45537
DATE: 12/11/91 crp

WATER ANALYSIS

Livingston/BN #2 (DBP)
140101-906
Sampled 11/18/91 @ 1413
Submitted 11/21/91
Analyzed 11/26/91

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807LAB NO.: 91-45538
DATE: 12/11/91 crpWATER ANALYSISLivingston/BN
140101-905
Sampled 11/18/91 @ 1330
Submitted 11/21/91
Analyzed 12/02/91

LG-10 (DBP)

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DEC 16 1991

ENVIROCON, Inc.
Livingston, MTVolatile Organic Constituentµg/l

Benzene	< 0.50
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
Dichlorodifluoromethane	< 1.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0

Volatile Organic Constituentµg/l

1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene chloride	1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl chloride	< 0.50
Xylenes	< 1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LAB NO.: 91-45539
DATE: 12/11/91 crp

L-87-1 (DBP)

RECEIVED

DEC 16 1991

ENVIROCON, Inc.
Livingston, ME

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807LAB NO.: Blank
DATE: 12/11/91 crpWATER ANALYSISMethod Blank
Analyzed 11/26/91**RECEIVED**
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45540
DATE: 12/11/91 crp

WATER ANALYSIS

Livingston/BN
140101-903
Sampled 11/18/91 @ 1045
Submitted 11/21/91
Analyzed 11/27/91

*Trip Blank***RECEIVED**

DEC 16 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	1.1
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45540 dup
DATE: 12/11/91 crp

QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN
140101-903 *2.58 B. J. G. J. G. J. G.*
Sampled 11/18/91 @ 1045
Submitted 11/21/91
Analyzed 12/02/91

RECEIVED**DEC 16 1991****ENVIROCON, Inc.
Livingston, MT**

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45531 -39
DATE: 12/11/91 crp

WATER ANALYSIS

Livingston/BN
Sampled 11/18/91
Submitted 11/21/91
Analyzed 11/22/91

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ENVIROCON, Inc.
Livingston, MT

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l(ppm)</u>
91-45531	140101-911, Sampled @ 1630	4.3 Influent HCR
91-45532	140101-912, Sampled @ 1640 Effluent	<0.1
91-45533	140101-910, Sampled @ 1648 MW4	<0.1
91-45534	140101-909, Sampled @ 1620 MW1	<0.1
91-45535	140101-908, Sampled @ 1515 L-87-8	8.9 L-87-8
91-45536	140101-907, Sampled @ 1430 #7	<0.1
91-45537	140101-906, Sampled @ 1413 #2	<0.1
91-45538	140101-905, Sampled @ 1330 LG-10	<0.1
91-45539	140101-904, Sampled @ 1200 L-87-1	<0.1
Blank	Method Blank	<0.1 ✓

NOTE: Analysis done by EPA method 418.1



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

December 13, 1991

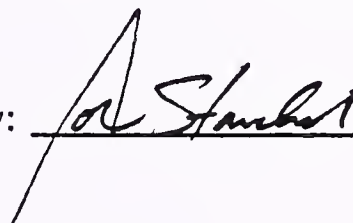
Envirocon, Inc.
P.O. Box 8243
Missoula, MT 59807

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

On November 21, 1991, these samples, represented by our laboratory numbers 91-45541 to 91-45549, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:



LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45541
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
140101-921
Sampled 11/19/91
Submitted 11/21/91
Analyzed 11/27/91

89-6 (NDSP)

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	18 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	0.80
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 5x dilution of the sample.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45542
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
140101-920
Sampled 11/19/91 @ 1540
Submitted 11/21/91
Analyzed 11/27/91

LS-8 (DSP)

RECEIVED

DEC 16 1991

ENVIROCON, Inc.
Livingston, MT.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	2.6	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	40 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	3.7
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	6.7	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45543
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
140101-919
Sampled 11/19/91 @ 1527
Submitted 11/21/91
Analyzed 11/27/91

LS-11 (D8P)

RECEIVED

DEC 16 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	17
Chlorobenzene	250 *	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	8.0
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	1.3	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	3.0	Trichloroethene	9.3
1,4-Dichlorobenzene	36 *	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	1.1
cis-1,2-Dichloroethene	54 *	Xylenes	< 1.0
trans-1,2-Dichloroethene	13		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 25x dilution of the sample.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45544
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
140101-918
Sampled 11/19/91 @ 1500
Submitted 11/21/91
Analyzed 11/27/91

90-3 (D8P)

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	11
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	4.1
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	7.7	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45545
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
140101-917
Sampled 11/19/91 @ 1425
Submitted 11/21/91
Analyzed 11/27/91

POTW (TAP)

RECEIVED

DEC 16 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.5
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	21
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45546
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
140101-916
Sampled 11/19/91 @ 1405
Submitted 11/21/91
Analyzed 11/27/91

89-2 Dupl (DBP)

RECEIVED

DEC 16 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>ug/l</u>	<u>Volatile Organic Constituent</u>	<u>ug/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	1.1
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 91-45547
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
140101-915
Sampled 11/19/91 @ 1400
Submitted 11/21/91
Analyzed 11/27/91

89-2 (DBP)

RECEIVED

DEC 16 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.3
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807LAB NO.: 91-45548
DATE: 12/13/91 rhWATER ANALYSISLivingston/BN
140101-914
Sampled 11/19/91 @ 1030
Submitted 11/21/91
Analyzed 11/27/91

#11 (NDBP)

RECEIVED
DEC 16 1991ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.7
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807LAB NO.: 91-45549
DATE: 12/13/91 rhWATER ANALYSISLivingston/BN
140101-913
Sampled 11/19/91 @ 0940
Submitted 11/21/91
Analyzed 11/27/91

LS-6 (DBP)

RECEIVED

DEC 16 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	5.1	Isopropylbenzene	3.7
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	6.2
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	1.7
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: Blank
DATE: 12/13/91 rh

WATER ANALYSIS

Analyzed 11/27/91

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P O BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO: 91-45541-9
DATE: 12/13/91 rh

WATER ANALYSIS

Livingston/BN
Sampled 11/19/91
Submitted 11/21/91
Analyzed 11/22/91

RECEIVED
DEC 16 1991
ENVIROCON, Inc.
Livingston, MT

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l (ppm)</u>	
91-45541	140101-921	<0.1	89-6
91-45542	140101-920, Sampled @ 1540	<0.1	LS-8
91-45543	140101-919, Sampled @ 1527	0.6	LS-11
91-45544	140101-918, Sampled @ 1500	<0.1	90-3
91-45545	140101-917, Sampled @ 1425	0.3	POTW
91-45546	140101-916, Sampled @ 1405	<0.1	89-2 dug
91-45547	140101-915, Sampled @ 1400	<0.1	89-3
91-45548	140101-914, Sampled @ 1030	<0.1	#11
91-45549	140101-913, Sampled @ 0940	1.1	LS-6
	Blank	<0.1	✓

NOTE: Analysis done by EPA method 418.1.

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DEC 17 1991

ENVIROCON, Inc.
Livingston, MT

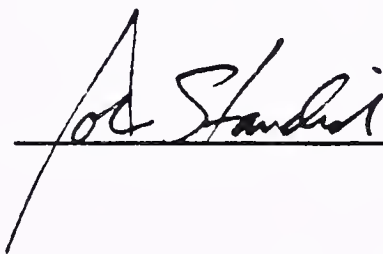
December 16, 1991

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On November 22, 1991, these samples, represented by our laboratory numbers 91-45832 to 91-45844, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: _____



LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45832
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN #5
140101-922
Sampled 11/20/91 @ 0950
Submitted 11/22/91
Analyzed 12/02/91

RECEIVED
DEC 17 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45833
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN #6
140101-923
Sampled 11/20/91 @ 1020
Submitted 11/22/91
Analyzed 12/02/91

RECEIVED
DEC 17 1991
Envirocon, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	3.2
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45834
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN
140101-924 L-88-10
Sampled 11/20/91 @ 1045
Submitted 11/22/91
Analyzed 12/02/91

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ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	5.2	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	1.1	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	65 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	18
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	200 *	Xylenes	< 1.0
trans-1,2-Dichloroethene	1.4		
1,2-Dichloropropane	< 1.0		

* Value derived from a 25X dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45835
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN
140101-925
Sampled 11/20/91 @ 1112
Submitted 11/22/91
Analyzed 12/02/91

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DEC 17 1991
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	1.2	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	3.7	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	22 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	7.7
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	38 *	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		✓
1,2-Dichloropropane	< 1.0		

* Value derived from a 5X dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45836
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN
140101-926 #3
Sampled 11/20/91 @ 1200
Submitted 11/22/91
Analyzed 12/02/91

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DEC 17 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>ug/l</u>	<u>Volatile Organic Constituent</u>	<u>ug/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 12/16/91 crp

WATER ANALYSIS

Method Blank
Analyzed 12/02/91

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 91-45837
DATE: 12/16/91 crp

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DEC 17 1991

WATER ANALYSISLivingston/BN
140101-927
Sampled 11/20/91 @ 1500
Submitted 11/22/91
Analyzed 12/03/91ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	1.6
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	4.0	Isopropylbenzene	4.3
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	1.1
Chlorobenzene	< 1.0	Naphthalene	8.9
Chloroethane	< 1.0	n-Propylbenzene	2.2
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45838
DATE: 12/16/91 crp

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DEC 17 1991

ENVIROCON, Inc.
Livingston, Mt.WATER ANALYSIS

Livingston/BN
140101-928
Sampled 11/20/91 @ 1534
Submitted 11/22/91
Analyzed 12/03/91

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.1
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 91-45839
DATE: 12/16/91 crp

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DEC 17 1991

ENVIROCON, Inc.
Livingston, MTWATER ANALYSISLivingston/BN
140101-929 89-1
Sampled 11/20/91 @ 1616
Submitted 11/22/91
Analyzed 12/03/91

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.3
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	1.8
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45840
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN
140101-930
Sampled 11/20/91 @ 1648
Submitted 11/22/91
Analyzed 12/03/91

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DEC 17 1991

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.2
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	130 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	10
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	16	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 10X dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45840 dup
DATE: 12/16/91 crp

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DEC 17 1991

QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN
140101-930
Sampled 11/20/91 @ 1648
Submitted 11/22/91
Analyzed 12/11/91

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	120 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	10
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 15	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

* Value derived from a 10X dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45841
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN
140101-931 89-4
Sampled 11/20/91 @ 1718
Submitted 11/22/91
Analyzed 12/03/91

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DEC 17 1991

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	210 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	6.0
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	16	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

* Value derived from a 25X dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45842
DATE: 12/16/91 crp

WATER ANALYSIS

Livingston/BN
140101-943
Sampled 11/20/91 @ 1230
Submitted 11/22/91
Analyzed 12/03/91

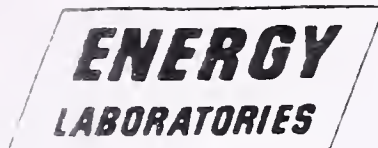
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DEC 17 1991

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.2
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45832 -41
DATE: 12/16/91 crp

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DEC 17 1991
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
Sampled 11/20/91
Submitted 11/22/91
Analyzed 11/22/91

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l(ppm)</u>
91-45832	140101-922, Sampled @ 0950 #5	<0.1
91-45833	140101-923, Sampled @ 1020 #6	<0.1
91-45834	140101-924, Sampled @ 1045 L-88-10	<0.1
91-45835	140101-925, Sampled @ 1112 L-88-13	<0.1
91-45836	140101-926, Sampled @ 1200 #3	0.6
91-45837	140101-927, Sampled @ 1500 L-87-7	1.2
91-45838	140101-928, Sampled @ 1534 L-87-4	0.6
91-45839	140101-929, Sampled @ 1616 89-1	<0.1
91-45840	140101-930, Sampled @ 1648 L-87-3	<0.1
91-45841	140101-931, Sampled @ 1718 89-4	<0.1
Blank		<0.1

NOTE: Analysis done by EPA method 418.1

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DEC 17 1991ENVIROCON, Inc.
Livingston, Mt.

December 16, 1991

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On November 22, 1991, these samples, represented by our laboratory numbers 91-45848 to 91-45858, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: *Al Stedman*

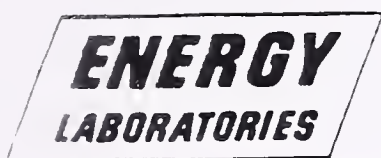
LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 91-45848
DATE: 12/16/91 rhWATER ANALYSISLivingston/BN
140101-932
Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/03/91RECEIVED
DEC 17 1991ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	1.4
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	1.6	Isopropylbenzene	1.2
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	70 *	Naphthalene	1.2
Chloroethane	<1.0	n-Propylbenzene	1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	100 *	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	0.83
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	3.9	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	17 *
1,4-Dichlorobenzene	3.7	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	3.4
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	1.1
cis-1,2-Dichloroethene	440 *	Xylenes	6.5
trans-1,2-Dichloroethene	8.7		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 25x dilution of the sample.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45849
DATE: 12/16/91 rh

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DEC 17 1991

WATER ANALYSIS

Livingston/BN
140101-933

L-88-12

Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/03/91

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	130 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	5.6
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	2.6	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 12/16/91 rh

RECEIVED
DEC 17 1991
ENVIROCON, Inc.
Livingston, MT

WATER ANALYSIS

Analyzed 12/03/91

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45850
DATE: 12/16/91 rh

RECEIVED**DEC 17 1991**WATER ANALYSIS

Livingston/BN
140101-934

Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/04/91

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	170 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	3.7
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	1.5	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45850 dup
DATE: 12/16/91 rh

QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN
140101-934 L-88-12
Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/10/91

RECEIVED
DEC 17 1991
ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	160 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	5.1
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	1.9	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45851
DATE: 12/16/91 rh

WATER ANALYSIS

Livingston/BN
140101-936 89-9
Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/04/91

RECEIVED**DEC 17 1991**ENVIROCON, Inc.
Livingston, Mt

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	190 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	6.9
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	1.3	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 91-45852
DATE: 12/16/91 rh

RECEIVED

DEC 1 / 1991

ENVIROCON, Inc.
Livingston, MTWATER ANALYSISLivingston/BN
140101-937 89-7
Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/04/91Volatile Organic Constituentµg/lVolatile Organic Constituentµg/l

Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	18 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	0.85
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	1.8
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	1.8	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 5x dilution of the sample.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 91-45853
DATE: 12/16/91 rh

RECEIVED

DEC 17 1991

ENVIROCON, Inc.
Livingston, Mt.WATER ANALYSIS

Livingston/BN

140101-938 89-11

Sampled 11/21/91

Submitted 11/22/91

Analyzed 12/04/91

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45854
DATE: 12/16/91 rh

WATER ANALYSIS

Livingston/BN
140101-939
Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/04/91

RECEIVED**DEC 17 1991**ENVIROCON Inc.
Livingston, MT.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	280 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		/
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 25x dilution of the sample.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 91-45855
DATE: 12/16/91 rh**RECEIVED**

DEC 17 1991

ENVIROCON, Inc.
Livingston, MTWATER ANALYSIS

Livingston/BN

140101-940 89-3

Sampled 11/21/91

Submitted 11/22/91

Analyzed 12/04/91

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	280 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 25x dilution of the sample.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45856
DATE: 12/16/91 rh

WATER ANALYSIS

Livingston/BN
140101-941

H-8

Sampled 11/21/91

Submitted 11/22/91

Analyzed 12/04/91

RECEIVED

DEC 17 1991

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	1.1
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	46 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	1.5
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	1.2	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 5x dilution of the sample.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45857
DATE: 12/16/91 rh

RECEIVED

DEC 17 1991

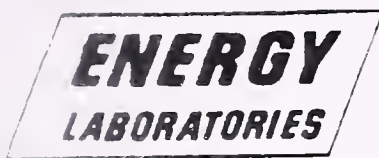
ENVIROCON, Inc.
Livingston, MTWATER ANALYSIS

Livingston/BN
140101-942
Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/04/91

Energy Blank

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	8.5	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406)252-6325
FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45858
DATE: 12/16/91 rh

WATER ANALYSIS

Livingston/BN
140101-935
Sampled 11/21/91
Submitted 11/22/91
Analyzed 12/04/91

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ENVIROCON, Inc.
Livingston, MT

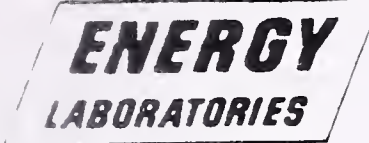
CONSTITUENT

Purgeable Halocarbons (EPA Method 8260)

	<u>µg/l</u>
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	3.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	160 *
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	8.0
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Method 601/8010.

* Value derived from a 10x dilution of the sample.



ENERGY LABORATORIES, INC.

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FAX (406)252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 12/16/91 rh

WATER ANALYSIS

Analyzed 12/04/91

CONSTITUENT

ug/l

RECEIVED
DEC 17 1991
ENVIROCON, Inc.
Livingston, MT.

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Method 601/8010.



ENERGY LABORATORIES, INC.

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FAX (406)252-6069 • 1-800-735-4429

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-45848-56
DATE: 12/16/91 rh

RECEIVED

DEC 17 1991

ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
Sampled 11/21/91
Submitted 11/22/91
Analyzed 11/22/91

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l(ppm)</u>
91-45848	140101-932 L-87-2	0.7
91-45849	140101-933 L-88-12	<0.1
91-45850	140101-934 L-88-12 dup	<0.1
91-45851	140101-936 89-9	<0.1
91-45852	140101-937 89-7	<0.1
91-45853	140101-938 89-11	<0.1
91-45854	140101-939 89-2	<0.1
91-45855	140101-940 89-3 dup	<0.1
91-45856	140101-941 #8	<0.1
	Blank	<0.1 ✓

NOTE: Analysis done by EPA method 418.1.



APPENDIX C

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES

LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA

DECEMBER 1991 MONTHLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the December 1991 monthly sampling round.

Table 1: Groundwater medium analytical suites for samples collected on 12/20/91

Sample Station		Date	Envirocon ID#	Lab ID #	EPA 601
89-2	(PS)	12/20/91	140101-957	91-48475	31
LG-10	(PS)	12/20/91	140101-956	91-48474	31

Explanation

- (PS) - Primary Sample
 - (FD) - Field Duplicate
 - (LD) - Laboratory Duplicate
 - (FS) - Field Split to a Second Laboratory
-

2.0 EVALUATION OF BLANK ANALYSES

One trip blank was analyzed for this sampling round and no contaminants were found. One laboratory blank was analyzed for this sampling round and no contaminants were found. All the blank results are located at the end of this report.

3.0 EVALUATION OF DUPLICATE ANALYSES

No field or laboratory duplicates or second laboratory splits were analyzed for this sample round.

4.0 EVALUATION OF HOLDING TIMES

No holding times were exceeded for this sample round.

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

Surrogate spike recoveries were within recovery limits. The U.S. Environmental Protection Agency quality control results were within the control limits. Surrogate spike and U.S. EPA quality control results are located at the end of this report.

6.0 Validation Level Assignments

All analytical results are acceptable for quantitative data analysis for this sampling round.

Laboratory and Trip Blank Analytical Results

Chemical Parameter	140101-955	
	LAB BLANK 1	TRIP BLANK
	12/20/91	12/20/91
Chemical Compound Class: Volatile Organic Compounds		
Bromodichloromethane, ug/L	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0
2-Chloroethyl vinyl ether, ug/L	< 1.0	< 1.0
Chloroform, ug/L	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-48473-5
DATE: 01/07/92 rh

RECEIVED
JAN 08 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
91-48473	93	101	93
91-48474	94	101	96
91-48475	94	102	99
Blank	99	104	88

S1 (TOL) = Toluene-d8

S2 (BFB) = Bromofluorobenzene

S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery

80-120

80-120

80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-48473-5
DATE: 01/07/92 rh

RECEIVED
JAN 08 1992
ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your Lab
No.s 91-48473-48475 with the following results:

<u>Parameter</u>	<u>True Value,</u> <u>µg/l</u>	<u>P(%)</u>	<u>Range</u> <u>for P(%)</u>
1,1-Dichloroethene	5.0	87	60-140
trans 1,2-Dichloroethene	5.0	93	60-140
1,2-Dichloroethane	5.0	75	60-140
Carbon Tetrachloride	5.0	107	60-140
1,2-Dichloropropane	5.0	93	60-140
1,1,2-Trichloroethane	5.0	94	60-140
Tetrachloroethene	5.0	105	60-140
Chlorobenzene	5.0	95	60-140
Ethylbenzene	5.0	98	60-140
1,3-Dichlorobenzene	5.0	100	60-140
1,4-Dichlorobenzene	5.0	97	60-140

P = Percent recovery measured.

RECEIVED**JAN 08 1992****ENVIROCON, Inc.
Livingston, MT.**

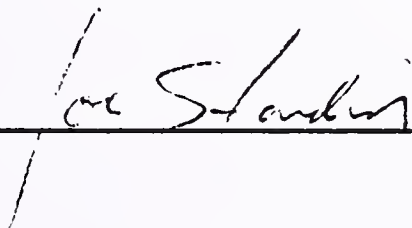
January 7, 1992

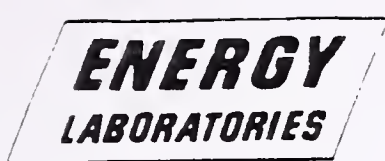
Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On December 23, 1991, these samples, represented by our laboratory numbers 91-48473 to 91-48475, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: _____





ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-48473
DATE: 01/07/92 rh

WATER ANALYSIS

Livingston/BN
140101-955
Sampled 12/20/91 @ 8:45
Submitted 12/23/91
Analyzed 01/03/92

Sup Blank

RECEIVED

JAN 08 1992

ENVIROCON Inc.
Livingston, Mt.

CONSTITUENT

ug/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA method 601/8010.

LABORATORY REPORT

TO: Envirocon, Inc
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-48474
DATE: 01/07/92

RECEIVED
JAN 08 1992
ENVIROCON, Inc.
Livingston, Mt.

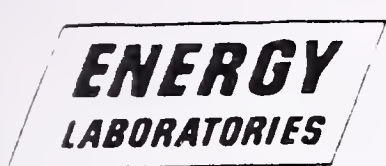
WATER ANALYSIS

Livingston/BN
140101-956
Sampled 12/20/91 @ 9:51
Submitted 12/23/91
Analyzed 01/03/92

CONSTITUENT
µg/l
Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA method 601/8010.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 91-48475
DATE: 01/07/92 rh

WATER ANALYSIS

Livingston/BN
140101-957 89-2
Sampled 12/20/91 @ 10:35
Submitted 12/23/91
Analyzed 01/03/92

RECEIVED
JAN 08 1992
ENVIROCON, Inc.
Livingston, Mt.

CONSTITUENT

µg/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA method 601/8010.

LABORATORY REPORT

TO: Envirocon, Inc
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 01/07/92 rh

RECEIVED

JAN 08 1992

ENVIROCON, Inc.
Livingston, MTWATER ANALYSIS

Analyzed 01/03/92

CONSTITUENTµg/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA method 601/8010.

